SSC CGL Figure Counting Questions PDF

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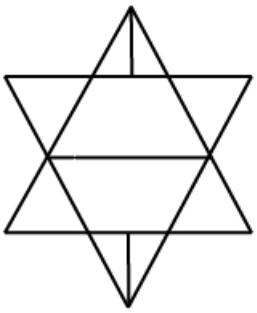
Instructions

For the following questions answer them individually

Question 1

How many triangles are there in this figure?



A 10

B 12

C 14

D 16

Answer: C

Explanation:

Small triangles = 8

Triangles formed by 2 triangles = 2

Triangles formed by 2 triangles and one trapezium = 2

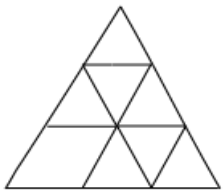
Larger triangles = 2

Thus, total triangles = 8 + 2 + 2 + 2 = 14

=> Ans - (C)

Question 2

How many triangles are there in the given figure?



A 12

B 11

C 10

D 15

Answer: B

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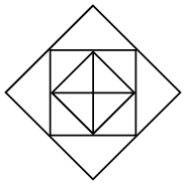
Question 3

How many triangles are there in this figure ?



A 12

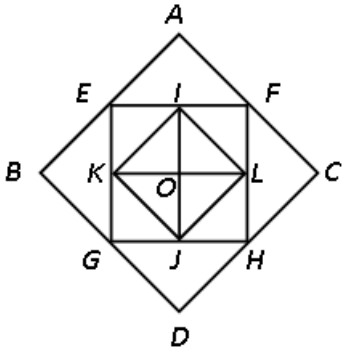
B 16

C 9

D 8

Answer: B

Explanation:



Small triangles = (AEF, AEG, GDH, CFH), (IEK, IFL, JLH, JKG), (IOK, IOL, JOL, KOJ)

Big triangles = IKL, JKL, IJK, IJL

Thus, total triangles = **16**

=> Ans - (B)

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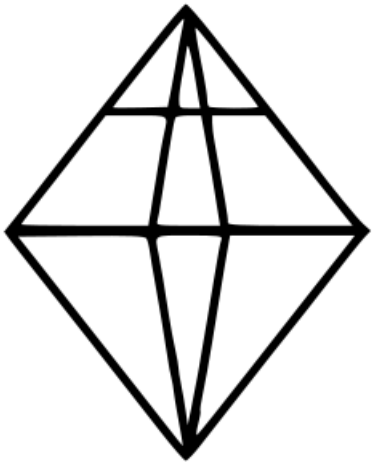
Question 4

How many triangles are there in this geometric figure?



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A 12

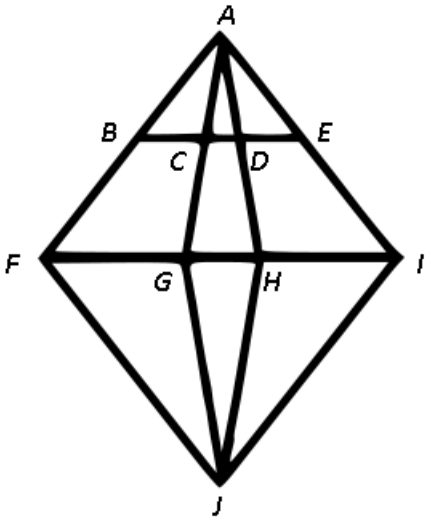
B 16

C 18

D 20

Answer: C

Explanation:



Smaller triangles = (ABC) , (ACD) , (ADE) , (FGJ) , (GHJ) , (HIJ)

Triangles made by combination of 2 triangles = (ABD) , (ACE) , (AFG) , (AGH) , (AHI) , (FHJ) , (GIJ)

Triangles made by combination of 3 triangles = (ABE) , (FIJ)

Triangles made by combination of 4 triangles = (AFH) , (AGI)

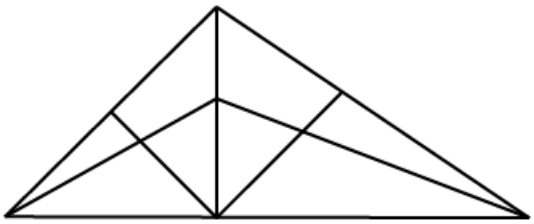
Triangles made by combination of 6 triangles = (AFI)

Thus, total triangles = 18

=> Ans - (C)

Question 5

How many triangles are there in the following figure?



A 18

B 13

C 9

D 5

Answer: A

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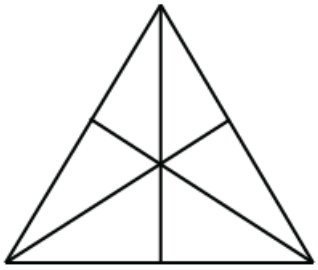
Question 6

How many triangles are there in the question figure?



A 6

B 10

C 12

D 16

Answer: D

Explanation:
Small triangles = 6

Triangles made by combining 2 small triangles = 3

Triangles made by combining 3 small triangles = 6

Large triangles = 1

So, total = 6 + 3 + 6 + 1 = 16

=> Ans - (D)

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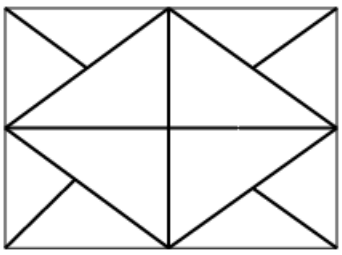
Question 7

How many triangles are there in the following figure?



A 12

B 16

C 10

D 20

Answer: D

Explanation:
Smaller triangles = 12

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Triangles formed with 2 triangles = 4

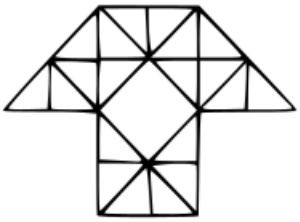
Larger triangles (combining triangles at the centre) = 4

Thus, total triangles = 12 + 4 + 4 = 20

=> Ans - (D)

Question 8

How many triangles are there in the given figure ?



A 29

B 38

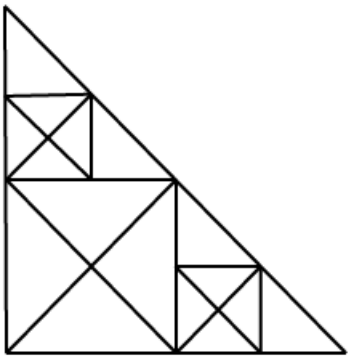
C 40

D 35

Answer: C

Question 9

How many triangles are there in the given figure ?



A 32

B 34

C 37

D 40

Answer: C

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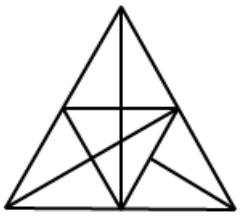
Question 10

How many triangles are there in the given figure ?



A 24

B 30

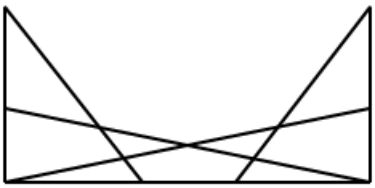
C 28

D 29

Answer: D

Question 11

How many triangles are there in the given figure.



A 14

B 15

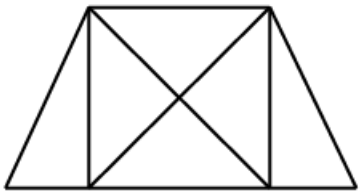
C 17

D 18

Answer: C

Question 12

How many triangles are there in the given figure ?



A 8

B 10

C 12

D 14

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Answer: C

Explanation:
Smaller triangles = 6

Triangles formed by combination of 3 triangles = 2

Larger triangles (at the diagonals) = 4

Thus, total triangles = 6 + 2 + 4 = 12

=> Ans - (C)

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Question 13

How many triangles are there in the given figure ?

A 12

B 13

C 15

D 18

Answer: C

Explanation:
Smaller triangles = 7

Triangles formed at diagonals of smaller square = 4

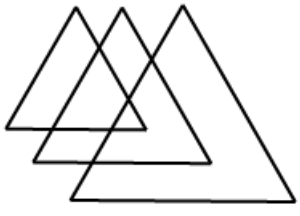
Triangles formed at diagonals of larger square = 4

Thus, total triangles = 7 + 4 + 4 = 15

=> Ans - (C)

Question 14

How many triangles are there in the given figure.



A 4

B 5

C 6

D 7

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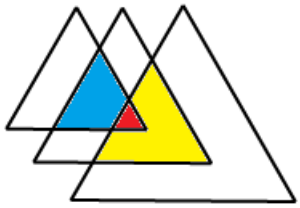
Answer: C

Explanation:



Larger triangles = 3

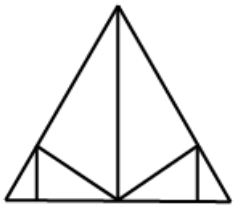
Triangles formed with color combination (blue+red) , (red) and (red+yellow) = 3

Thus, total triangles = 3 + 3 = 6

=> Ans - (C)

Question 15

How many triangles are there in the given figure?



A 10

B 11

C 12

D 13

Answer: B

Explanation:

Smaller triangles = 6

Triangles formed with combination of 2 triangles = 2

Triangles formed with combination of 3 triangles = 2

Larger triangle = 1

Thus, total triangles = 6 + 2 + 2 + 1 = 11

=> Ans - (B)

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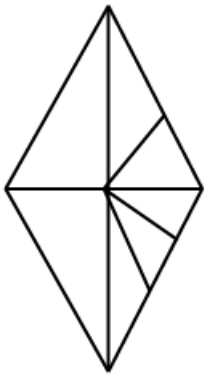
Question 16

How many triangles are there in the given figure ?



A 14

B 15

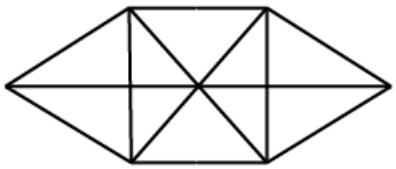
C 16

D 19

Answer: B

Question 17

How many triangles are there in the given figure ?



A 16

B 20

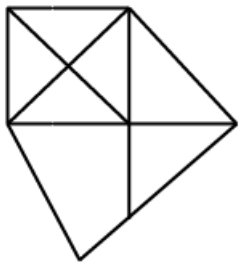
C 22

D 24

Answer: C

Question 18

How many triangles are there in the given figure ?



A 11

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B 12

C 13

D 15

Answer: C

Explanation:
Smaller triangles = 6

Triangles at the diagonal of the square = 4

Triangles formed by combining 2 triangles (at the right) = 1

Triangles formed by combining 1 triangles and 1 quadrilateral (at the bottom) = 1

Triangles formed by combining 3 triangles = 1

Thus, total triangles = 6 + 4 + 1 + 1 + 1 = 13

=> Ans - (C)

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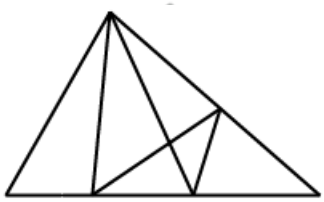
Question 19

How many triangles are there in the given figure ?



A 13

B 14

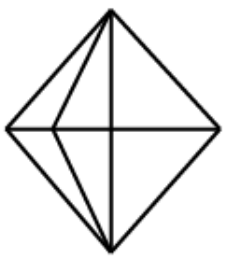
C 15

D 16

Answer: C

Question 20

How many triangles are there in the given figure ?



A 12

B 13

C 15

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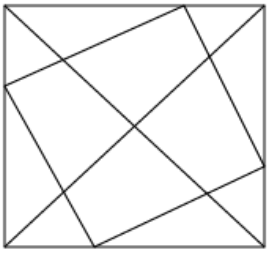
D 18

Answer: C

Question 21

How many triangles are there in the given figure



A 20

B 23

C 24

D 26

Answer: A

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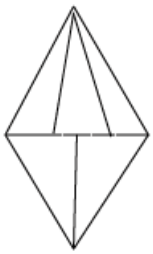
Question 22

How many triangles are there in this given figure



A 8

B 9

C 10

D 12

Answer: B

Explanation:

Small triangles = 5

Triangles formed by combination of 2 triangles = 3

Triangles formed by combination of 3 triangles = 1

Thus, total triangles = 5 + 3 + 1 = 9

=> Ans - (B)

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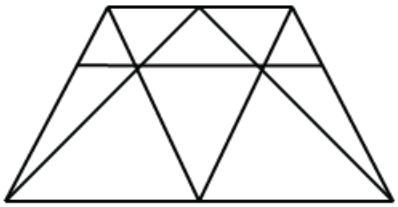
Question 23

How many triangles are there in the given figure?



A 18

B 19

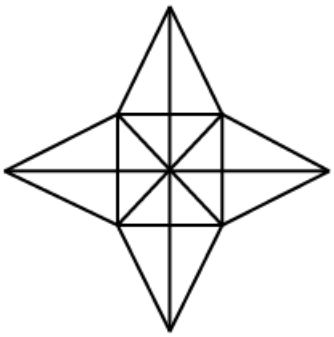
C 20

D 21

Answer: C

Question 24

How many triangles are there in the given figure ?



A 28

B 36

C 40

D 48

Answer: B

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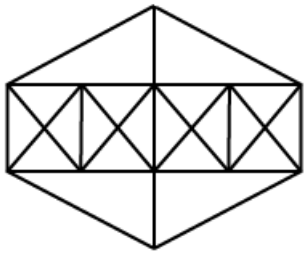
Question 25

How many triangles are there in the given figure ?



A 38

B 44

C 46

D 54

Answer: B

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